

# Unit 5 COMBINED OPERATIONS WITH WHOLE NUMBERS

## PRACTICAL PROBLEMS

Review and apply the principles of addition, subtraction, multiplication, and division of whole numbers.

$$\begin{array}{r} 1. \quad 629 \\ \quad 315 \\ \quad 783 \\ + \quad 324 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 4,567 \\ \quad \quad 632 \\ \quad 7,992 \\ + \quad 6,415 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 642 \\ - \quad 218 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 833 \\ - \quad 394 \\ \hline \end{array}$$

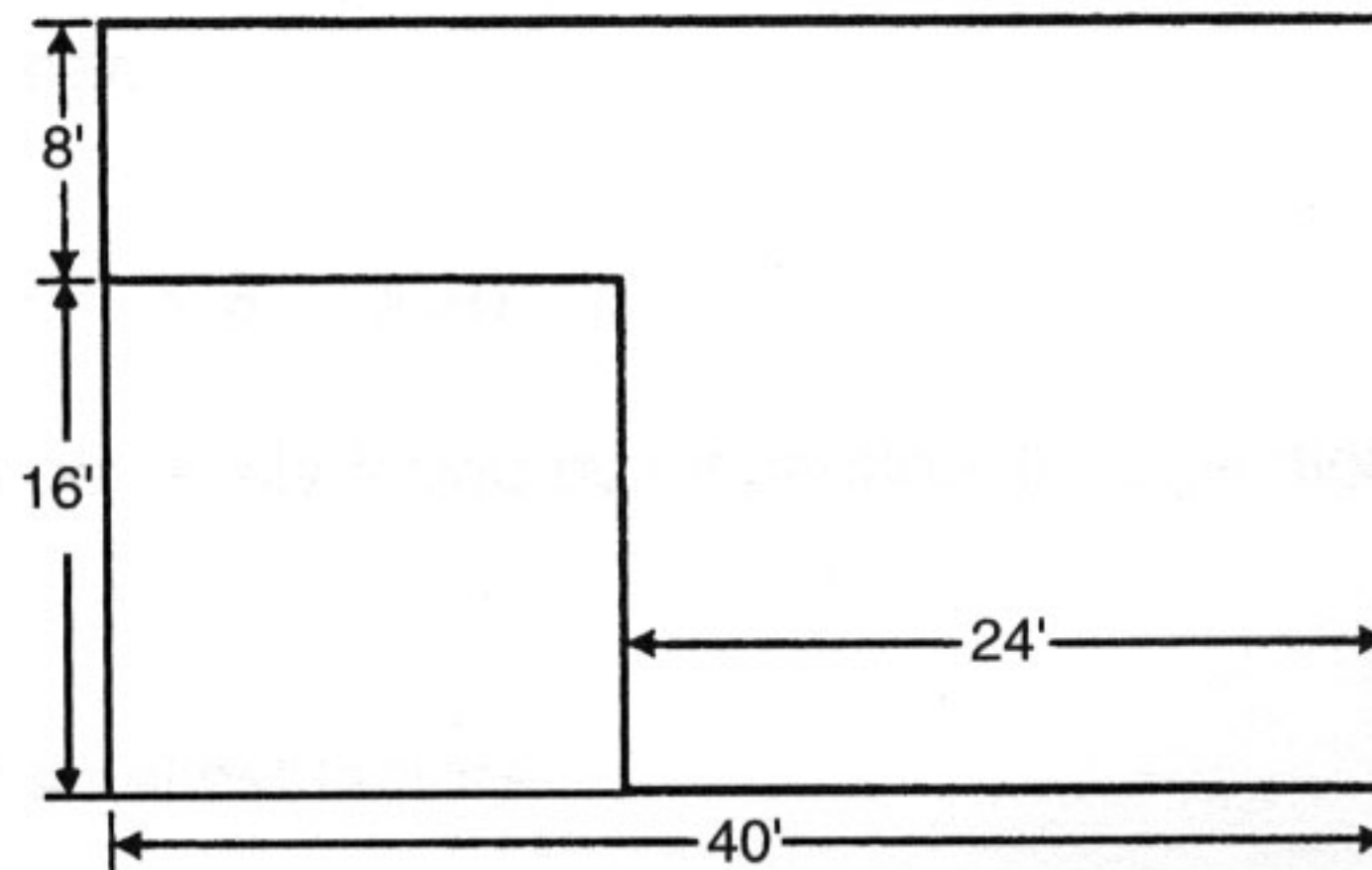
$$\begin{array}{r} 5. \quad 7,035 \\ \times \quad 476 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 2,884 \\ \times \quad 3,526 \\ \hline \end{array}$$

$$7. \quad 39 \overline{)936}$$

$$8. \quad 252 \overline{)124,992}$$

9. A carpenter cuts three pieces of weather stripping from a roll 120 inches long. How much remains if the pieces were 37 inches, 34 inches, and 36 inches? \_\_\_\_\_
10. How much baseboard will be required for a room 12 feet by 15 feet if 36 inches are allowed for a door? \_\_\_\_\_
11. A contractor hired three carpenters to work 9 hours per day for 5 days and two carpenters to work 4 hours for 1 day. What is the total number of hours they worked? \_\_\_\_\_
12. How many squares of roofing will be needed for a roof that is 25 feet by 60 feet? (One square covers 100 square feet.) \_\_\_\_\_
13. How many pieces of 4-foot by 8-foot plywood subfloor will be needed for the floor in the diagram? \_\_\_\_\_



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14. Three helpers are hired and paid \$11 per hour. One helper works 6 hours, another 8 hours, and the third only 4 hours. What is the total amount the carpenter paid?  

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15. How many square feet of flooring will be needed for a cottage with only four rooms measuring: 9 feet by 12 feet, 8 feet by 10 feet, 13 feet by 11 feet, and 19 feet by 16 feet?  

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16. Floor joists are delivered in 16-foot lengths. If only  $14\frac{1}{2}$ -foot lengths are needed, how much waste results when 11 joists are used?  

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17. A 6-floor apartment building has an average of 7 doors per apartment, and there are 5 apartments on each floor. How many doors are required?  

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18. A porch with eight windows is being fitted with new screens. Six windows measure 30 inches by 4 feet, and the other two, 18 inches by 4 feet. Making no allowance for waste, how many square feet of screening should be ordered?  

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19. Five pieces of stock, each 120 inches, are cut into 106-inch lengths. Find the total amount of waste.  

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20. A sawmill has 750,000 board feet of hemlock. After selling 475,000 board feet, the remainder is sold at \$110 per 1,000 board feet. What is the amount of the final sale?  

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21. The cost of building garages at a new development is \$10,825 per garage. If a subcontractor builds five and then sells four at \$12,500 each to the developer, how much does the subcontractor now have invested?  

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